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09/891,167	06/26/2001	Andy L. Ruse	2207/11666	1366
25693 KENYON & K	7590 02/13/200 ENYON LLP	9	EXAMINER	
RIVERPARK TOWERS, SUITE 600			JOO, JOSHUA	
333 W. SAN CARLOS ST. SAN JOSE, CA 95110			ART UNIT	PAPER NUMBER
			2454	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	09/891,167	RUSE ET AL.				
Office Action Summary	Examiner	Art Unit				
	JOSHUA JOO	2454				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 30 De	ecember 2008					
·— · · · · · · · · · · · · · · · · · ·	·					
<del>'=</del>	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) Claim(s) 1.2.4-8.10-14 and 16-18 is/are pendir	4)⊠ Claim(s) <u>1,2,4-8,10-14 and 16-18</u> is/are pending in the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-2, 4-8, 10-14, 16-18</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers						
9) The specification is objected to by the Examiner. 10) ☑ The drawing(s) filed on <u>26 June 2001</u> is/are: a) ☑ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.03(a).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:						
·—						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Coo and detailed chief detail for a list of the continue copies not received.						
Attachananta						
Attachment(s)  1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)						
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO/SB/08)						
Paper No(s)/Mail Date 6) Other:						

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#### **Detailed Action**

This Office action is in response to Applicant's communication filed on 12/30/2008.
 Claims 1-2, 4-8, 10-14, 16-18 are pending for examination.

#### **Continued Examination Under 37 CFR 1.114**

2. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 12/30/2008 has been entered.

# **Response to Arguments**

- 3. Applicant's arguments with respect to claims 1-2, 4-8, 10-14, 16-18 have been considered but are moot in view of the new ground(s) of rejection. New ground(s) of rejection are necessitated by Applicant's amendment. Applicant also argued regarding currently cited references that:
- 4. (1) Editing and modifying a generic "parameter" information parameter and accessing "time" information found in the user profile are not the same as a trend analysis table further comprising a user override location that indicates probabilities of successful contact for each location are to be ignored and the override location is to be used for contact.
- 5. In response, on paragraph 0062, Horvitz teaches of a user mechanism 202 comprising a user notification preferences store and a user context module including user context profile store. On paragraph 0063, Horvitz teaches that the user context module provides a best guess about current context information. On paragraph 0055 and 0080, Horvitz teaches of a user profile in a user mechanism 202 indicating that a preferred location is to be used for contact instead of the decision-theoretic analysis or a

probabilistic profile. Therefore, the user mechanism provides an indication that a preferred location that is used for contact and disregards the decision-theoretic analysis and the probabilistic profile.

- 6. (2) Singh does not describe at least the amended limitations comprising "wherein said results are stored in order of probability of highest to lowest and if the transfer is unsuccessful, transferring to a next highest priority contact point for the user".
- 7. In response, Examiner respectfully disagrees that Singh does not teach the amended limitations. Singh teaches,
  - "At the time of message receipt, host server 10 ranks each of the devices 16 registered by the subscriber to determine which has the highest probability that the subscriber will receive the message (block 302)." (col. 5, lines 13-16)
  - "(20) After ranking each of the devices 16, master agent 21 delivers the message to the highest ranked device (block 304). The message will remain pending at the device 16 for a predetermined period of time waiting to be accessed by the subscriber (block 306). If the subscriber accesses the message, the subscriber agent at the device signals the master agent 21 and the process is terminated (block 310). If the message is not accessed within the time period, subscriber agent 19 signals the non-accessed message status to the master agent 21 and the message is deleted from the device 16 (block 312). Master agent 21 then sends the message to the next ranked device 16 (block 314). If the message is accessed, the process is terminated (block 310). If the message is not accessed, the process continues until the subscriber receives the message." (col. 6, lines 3-17)
- 8. According to above passages, Singh teaches of determining a probability of contacting a user and ranking a result of the probability in order to determine a highest probability of contacting the user. A message is first delivered to the highest ranked device, and if unsuccessful, a message is delivered to the next ranked device, which suggests that the ranking is in an order of a probability of highest to lowest. Therefore, Singh teaches the feature of results being stored in an order of probability from highest to lowest. Singh also teaches of transferring the message to the highest ranked device and if the message is not accessed at the highest ranked device, then the message is transferred to the next highest ranked device, which is the next highest probability contact point. Since the message is not accessed within a time period, the transfer of the message to the highest ranked device is considered as unsuccessful.

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Therefore, Singh teaches the feature of if the transfer is unsuccessful, transferring to a next highest probability contact point for the user.

## **Claim Objections**

- 9. Claims 1-2, 4-6, 13-14, 16-18 are objected to because of the following informalities:
  - i) Regarding claims 1 and 13, "storing each response along the associated time of day" should be changed to "storing each response along with the associated time of day".
  - ii) Regarding claim 13, the claim comprises two colons following the phrase "said method comprising".

Appropriate correction is required.

# Claim Rejections - 35 USC § 112

- 10. The following is a quotation of the second paragraph of 35 U.S.C. 112:
  - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 11. Claims 1-2, 4-8, 10-14, 16-18 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
  - i) Regarding claims 1 and 13, "said results" has insufficient antecedent basis as the claim comprises "the result" but not "results".
  - ii) Regarding claim 5, "the incoming message" has insufficient antecedent basis as claims 1 and 4 comprise "incoming messages" but do not refer to a single incoming message.
  - iii) Regarding claim 7, "said results" and "the transfer" have insufficient antecedent basis
  - iv) Regarding claim 17, "the incoming message" has insufficient antecedent basis as claims 13 and 16 comprise "incoming messages" but do not refer to a single incoming message.

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## Claim Rejections - 35 USC § 103

12. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 13. Claims 1-2, 4-8, 10-14, 16-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Horvitz et al, US Publication #2007/0011314 (Horvitz hereinafter), in view of Foladare et al. US Patent #6,311,210 (Foladare hereinafter) and Singh, US Patent #6,405,035 (Singh hereinafter).
- 14. As per claim 1, Horvitz teaches substantially the invention as claimed including a method for forwarding messages, comprising:

monitoring locations of "activities" along with the time of day and day of week (Paragraphs 0026; 0028; 0048. Discern user location. Observe user location and activities time of day and day of week.);

storing "activities" along the associated time of day and day of week in a database (Paragraph 0026; 0028. Store user context information regarding location and activities per time of day and day of the week.);

performing a statistical trend analysis on a user basis to determine a probability of contacting the user for a given time of day and day of week at a given location (Paragraph 0027. Infer parameters that indicate likelihood user is in different locations. Paragraph 0028. Use statistical model to determine likelihood user is in a state. Paragraph 0053. Performs analysis on information provided by sinks including user's location. Paragraph 0064. Probabilistic inference/profile.);

storing a trend analysis table the result of the statistical trend analysis performed (Paragraphs 0028; 0039-0010; 0063. User context profile used to make decisions. Store priori about user location and

user activity. Paragraph 0063. User context profile store captures information such as deterministic or probabilistic profile.); and

transferring incoming messages to the location in the trend analysis with the highest probability of contacting the user (Paragraph 0040. Determine best device for relay notification. Paragraph 0063. Best guess about user context information.), wherein said trend analysis table further comprises a user override location that indicates possibilities of successful contact for each location are to be ignored and the override location is to be used for contact (Paragraphs 0063. User mechanism comprises user profile and best guess about current context. Paragraphs 0055; 0080. The user profile indicates a preference that is used in lieu of the decision-theoretic analysis.).

- 15. Horvitz teaches of monitoring locations of activities but does not specifically teach the activities to include responses to incoming messages. Horvitz does not specifically teach of wherein said results are stored in order of probability of highest to lowest and if the transfer is unsuccessful, transferring to a next highest priority contact point for the user.
- 16. Foladare teaches of sending messages to devices and monitoring access of incoming messages by a device (col. 3, lines 56-60; col. 5, line 66-col. 6, line 7.).
- 17. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings for the monitoring of activities as taught by Horvitz to include monitoring response to messages as taught by Foladare. The motivation for the suggested combination is that Foladare's teachings of monitoring access of incoming messages would provide a specific activity for determining and monitoring the user's location and activity. Foladare's teachings would also provide message/notification sending based on the type of user device (col. 3, lines 45-53).
- 18. Singh teaches a similar invention for sending messages using a probabilistic approach, wherein results of a statistical trend analysis are stored in order of probability of highest to lowest (col. 5, lines 13-

- 16. Rank each of the devices to determine device with highest probability. col. 6, lines 3-5. Deliver message to highest rank device.) and if a transfer is unsuccessful, transferring to a next highest priority contact point for the user (col. 6, lines 10-17. If the message is not accessed, send message to the next ranked device.).
- 19. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings for the results as taught by Horvitz to be stored in order of probability of highest to lowest and if a transfer is unsuccessful, transferring to a next highest priority contact point for the user as taught by Singh. The motivation for the suggested combination is that Singh's teachings would improve the suggested system by increasing the probability that a user will receive a message in a timely manner (col. 1, lines 53-55).
- 20. As per claim 7, Horvitz teaches substantially the invention as claimed including a system for forwarding messages, comprising:
- a server comprising a computer storage medium (Paragraph 0028; claim 1. System to stored information.);
- a monitoring module stored on the computer storage medium to monitor "activities" by users and store the location of the response with a time stamp in a database (Paragraphs 0026; 0028; 0048. Discern user location. Paragraph 0026; 0028. Store user context information regarding location and activities per time of day and day of the week. Paragraph 0081. Users);
- a trend analysis module stored on the computer storage medium to perform a statistical probability analysis on the location and time stamp data in the database and determine the probability of contacting the user at each of a plurality of locations for a given time of day (Paragraph 0027. Infer parameters that indicate likelihood user is in different locations. Paragraph 0028. Use statistical model to determine likelihood user is in a state. Paragraph 0053. Performs analysis on information provided by

sinks including user's location. Paragraph 0064. Probabilistic inference/profile.) and storing the probability of contacting the user at each of a plurality of locations in a trend analysis table (Paragraphs 0028; 0039-0040; 0063. User context profile store used to make decisions. Store priori about user location and user activity. Paragraph 0063. User context profile store captures information such as deterministic or probabilistic profile.); and

a forwarding module stored on the computer storage medium to receive an incoming message and forward the incoming message to a location with the highest probability of contacting the user as designated in the trend analysis table (Paragraph 0040. Determine best device for relay notification. Paragraph 0063. Best guess about user context information.), wherein said trend analysis table further comprises a user override location that indicates possibilities of successful contact for each location are to be ignored and the override location is to be used for contact (Paragraphs 0063. User mechanism comprises user profile and best guess about current context. Paragraphs 0055; 0080. The user profile indicates a preference that is used in lieu of the decision-theoretic analysis.).

- 21. Horvitz teaches of monitoring locations of activities but did not specifically teach the activities to include responses to messages received. Horvitz does not specifically teach of wherein said results are stored in order of probability of highest to lowest and if the transfer is unsuccessful, transferring to a next highest priority contact point for the user.
- 22. Foladare teaches of monitoring access of incoming messages by a device (col. 3, lines 56-60; col. 5, line 66-col. 6, line 7).
- 23. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings for the monitoring of activities as taught by Horvitz to include monitoring response to messages as taught by Foladare. The motivation for the suggested combination is that Foladare's teachings of monitoring access of incoming messages would provide a specific activity for

determining and monitoring the user's location and activity. Foladare's teachings would also provide message/notification sending based on the type of user device (col. 3, lines 45-53).

- 24. Singh teaches a similar invention for sending messages using a probabilistic approach, wherein results of a statistical trend analysis are stored in order of probability of highest to lowest (col. 5, lines 13-16. Rank each of the devices to determine device with highest probability. col. 6, lines 3-5. Deliver message to highest rank device.) and if a transfer is unsuccessful, transferring to a next highest priority contact point for the user (col. 6, lines 10-17. If the message is not accessed, send message to the next ranked device.).
- 25. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings for the results as taught by Horvitz to be stored in order of probability of highest to lowest and if a transfer is unsuccessful, transferring to a next highest priority contact point for the user as taught by Singh. The motivation for the suggested combination is that Singh's teachings would improve the suggested system by increasing the probability that a user will receive a message in a timely manner (col. 1, lines 53-55).
- 26. As per claim 13, Horvitz teaches substantially the invention as claimed including an article of manufacture comprising a computer-readable storage medium having stored thereon instructions to be executed by a processor, the instructions which, when executed, cause the processor to perform a method of forwarding messages, comprising:

monitoring locations of "activities" along with the time of day and day of week (Paragraphs 0026; 0028; 0048. Discern user location. Observe user location and activities time of day and day of week.);

storing "activities" along the associated time of day and day of week in a database (Paragraph 0026; 0028. Store user context information regarding location and activities per time of day and day of the week.);

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performing a statistical trend analysis on a user basis to determine a probability of contacting the user for a given time of day and day of week at a given location (Paragraph 0027. Infer parameters that indicate likelihood user is in different locations. Paragraph 0028. Use statistical model to determine likelihood user is in a state. Paragraph 0053. Performs analysis on information provided by sinks including user's location. Paragraph 0064. Probabilistic inference/profile.);

storing a trend analysis table the result of the statistical trend analysis performed (Paragraphs 0028; 0039-0010; 0063. User context profile used to make decisions. Store priori about user location and user activity. Paragraph 0063. User context profile store captures information such as deterministic or probabilistic profile.); and

transferring incoming messages to the location in the trend analysis with the highest probability of contacting the user (Paragraph 0040. Determine best device for relay notification. Paragraph 0063. Best guess about user context information.), wherein said trend analysis table further comprises a user override location that indicates possibilities of successful contact for each location are to be ignored and the override location is to be used for contact (Paragraphs 0063. User mechanism comprises user profile and best guess about current context. Paragraphs 0055; 0080. The user profile indicates a preference that is used in lieu of the decision-theoretic analysis.).

27. Horvitz teaches of monitoring locations of activities but does not specifically teach the activities to include responses to incoming messages. Horvitz does not specifically teach of wherein said results are stored in order of probability of highest to lowest and if the transfer is unsuccessful, transferring to a next highest priority contact point for the user.

- 28. Foladare teaches of sending messages to devices and monitoring access of incoming messages by a device (col. 3, lines 56-60; col. 5, line 66-col. 6, line 7.).
- 29. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings for the monitoring of activities as taught by Horvitz to include monitoring response to messages as taught by Foladare. The motivation for the suggested combination is that Foladare's teachings of monitoring access of incoming messages would provide a specific activity for determining and monitoring the user's location and activity. Foladare's teachings would also provide message/notification sending based on the type of user device (col. 3, lines 45-53).
- 30. Singh teaches a similar invention for sending messages using a probabilistic approach, wherein results of a statistical trend analysis are stored in order of probability of highest to lowest (col. 5, lines 13-16. Rank each of the devices to determine device with highest probability. col. 6, lines 3-5. Deliver message to highest rank device.) and if a transfer is unsuccessful, transferring to a next highest priority contact point for the user (col. 6, lines 10-17. If the message is not accessed, send message to the next ranked device.).
- 31. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings for the results as taught by Horvitz to be stored in order of probability of highest to lowest and if a transfer is unsuccessful, transferring to a next highest priority contact point for the user as taught by Singh. The motivation for the suggested combination is that Singh's teachings would improve the suggested system by increasing the probability that a user will receive a message in a timely manner (col. 1, lines 53-55).
- 32. As per claim 2, Horvitz teaches the invention of claim 1, wherein said trend analysis table comprises a user identification, a plurality of times a day and days of week with locations of contact and probabilities of successful contact associated with each locations (Paragraphs 0026; 0065. User profile

can be of locations and activities per the time of day and day of the week. Paragraph 0027. Infer likelihood user is in different locations. Paragraph 0040. Determine best device for relay notification. Paragraph 0063. Probabilistic profile).

- 33. As per claim 4, Horvitz, Foladare, and Singh taught the invention defined in claim 1. Horvitz further teaches the invention of wherein the incoming messages and responses are from PSTN telephone, cellular telephone, pager, fax, voice mail, e-mail or other voice or digital communication format (Paragraph 0030. Email. Paragraphs 0021; 0038. Cell phone).
- 34. As per claim 5, Horvitz, Foladare, and Singh taught the invention defined in claim 4. Horvitz further teaches the invention comprising checking the user override location in the trend analysis table and transmitting the incoming message to the user override location when set (Paragraphs 0055; 0080. The user profile indicates a preference that is used in lieu of the decision-theoretic analysis.).
- 35. As per claim 6, Horvitz teaches the invention of claim 4 comprising: contacting the user at the location with the highest probability of successful contact associated with the location. (Paragraph 0040. Determine best device for relay notification. Paragraph 0063. Best guess about user context information.). Horvitz does not specifically teach of contacting the user at the location with second highest probability of success when unable to contact the user at the location with the highest probability of success.
- 36. Singh teaches a similar system comprising of contacting a user at the location with the second highest probability of success when unable to contact the user at a device with the highest probability of success (col. 6, lines 1-14. Send message to highest ranked device. If the subscriber doesn't access the message of the first device, the message is send to the next ranked device.).

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37. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the suggested system with the teachings of Singh to contact a user at a location with the second highest probably of success when unable to contact the user at a device with the highest probability of success. The motivation for the suggested combination is that Singh's teachings would improve the suggested system by increasing the possibility that the user receives a message by forwarding the message to more than one device and ensuring that the client receives the message (col. 6, lines 14-17).

- 38. As per claim 8, Horvitz teaches the invention of claim 7, wherein the database further comprises: a trend analysis table comprises a user identification, a plurality of times a day and days of week with locations of contact and probabilities of successful contact associated with each locations (Paragraphs 0026; 0065. User profile can be of locations and activities per the time of day and day of the week. Paragraph 0027. Infer likelihood user is in different locations. Paragraph 0040. Determine best device for relay notification. Paragraph 0063. Probabilistic profile).
- 39. As per claim 10, Horvitz, Foladare, and Singh taught the invention defined in claim 7. Horvitz further teaches the invention of wherein the responses are from PSTN telephone, cellular telephone, pager, fax, voice mail, e-mail or other voice or digital communication format (Paragraph 0030. Email. Paragraphs 0021; 0038. Cell phone).
- 40. As per claim 11, Horvitz, Foladare, and Singh taught the invention defined in claim 10. Horvitz further teaches the invention wherein the forwarding module checks an override location specified by a user and forwards all incoming message to the user override location(Paragraphs 0055; 0080. The user profile indicates a preference that is used in lieu of the decision-theoretic analysis.).

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41. As per claim 12, Horvitz teaches the invention of claims 10, wherein the forwarding module will attempt to contact the user at the location with the highest probability of successful contact associated with the location. (Paragraph 0040. Determine best device for relay notification. Paragraph 0063. Best guess about user context information.). Horvitz does not specifically teach the system wherein a module proceed to contact the user at the location with second highest probability of success when the contacting the user at the location with the highest probability of contact fails.

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- 42. Singh teaches a similar system comprising of contacting a user at the location with the second highest probability of success when unable to contact the user at a device with the highest probability of success (col. 6, lines 1-14. Send message to highest ranked device. If the subscriber doesn't access the message of the first device, the message is send to the next ranked device.).
- 43. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the suggested system with the teachings of Singh to contact a user at a location with the second highest probably of success when unable to contact the user at a device with the highest probability of success. The motivation for the suggested combination is that Singh's teachings would improve the suggested system by increasing the possibility that the user receives a message by forwarding the message to more than one device and ensuring that the client receives the message (col. 6, lines 14-17).
- 44. As per claim 14, Horvitz teaches the invention of claim 13, wherein said trend analysis table comprises a user identification, a plurality of times a day and days of week with locations of contact and probabilities of successful contact associated with each locations (Paragraphs 0026; 0065. User profile can be of locations and activities per the time of day and day of the week. Paragraph 0027. Infer likelihood user is in different locations. Paragraph 0040. Determine best device for relay notification.

Paragraph 0063. Probabilistic profile).

- 45. As per claim 16, Horvitz, Foladare, and Singh taught the invention defined in claim 13. Horvitz further teaches the invention of wherein the incoming messages and responses are from PSTN telephone, cellular telephone, pager, fax, voice mail, e-mail or other voice or digital communication format (Paragraph 0030. Email. Paragraphs 0021; 0038. Cell phone).
- 46. As per claim 17, Horvitz, Foladare, and Singh taught the invention defined in claim 16. Horvitz further teaches the invention comprising checking the user override location in the trend analysis table and transmitting the incoming message to the user override location when set (Paragraphs 0055; 0080. The user profile indicates a preference that is used in lieu of the decision-theoretic analysis.).
- As per claim 18, Horvitz teaches the invention of claim 16 comprising: contacting the user at the location with the highest probability of successful contact associated with the location. (Paragraph 0040. Determine best device for relay notification. Paragraph 0063. Best guess about user context information.). Horvitz does not specifically teach of contacting the user at the location with second highest probability of success when unable to contact the user at the location with the highest probability of success.
- 48. Singh teaches a similar system comprising of contacting a user at the location with the second highest probability of success when unable to contact the user at a device with the highest probability of success (col. 6, lines 1-14. Send message to highest ranked device. If the subscriber doesn't access the message of the first device, the message is send to the next ranked device.).
- 49. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the suggested system with the teachings of Singh to contact a user at a location with the

second highest probably of success when unable to contact the user at a device with the highest probability of success. The motivation for the suggested combination is that Singh's teachings would improve the suggested system by increasing the possibility that the user receives a message by forwarding the message to more than one device and ensuring that the client receives the message (col. 6, lines 14-17).

#### Conclusion

- 50. A shortened statutory period for reply to this Office action is set to expire THREE MONTHS from the mailing date of this action.
- 51. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joshua Joo whose telephone number is 571 272-3966. The examiner can normally be reached on Monday to Thursday 8AM to 5PM and every other Friday.
- 52. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan J. Flynn can be reached on 571 272-1915. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.
- Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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/J. J./

Examiner, Art Unit 2454

/Nathan J. Flynn/ Supervisory Patent Examiner, Art Unit 2454